FIG. 1

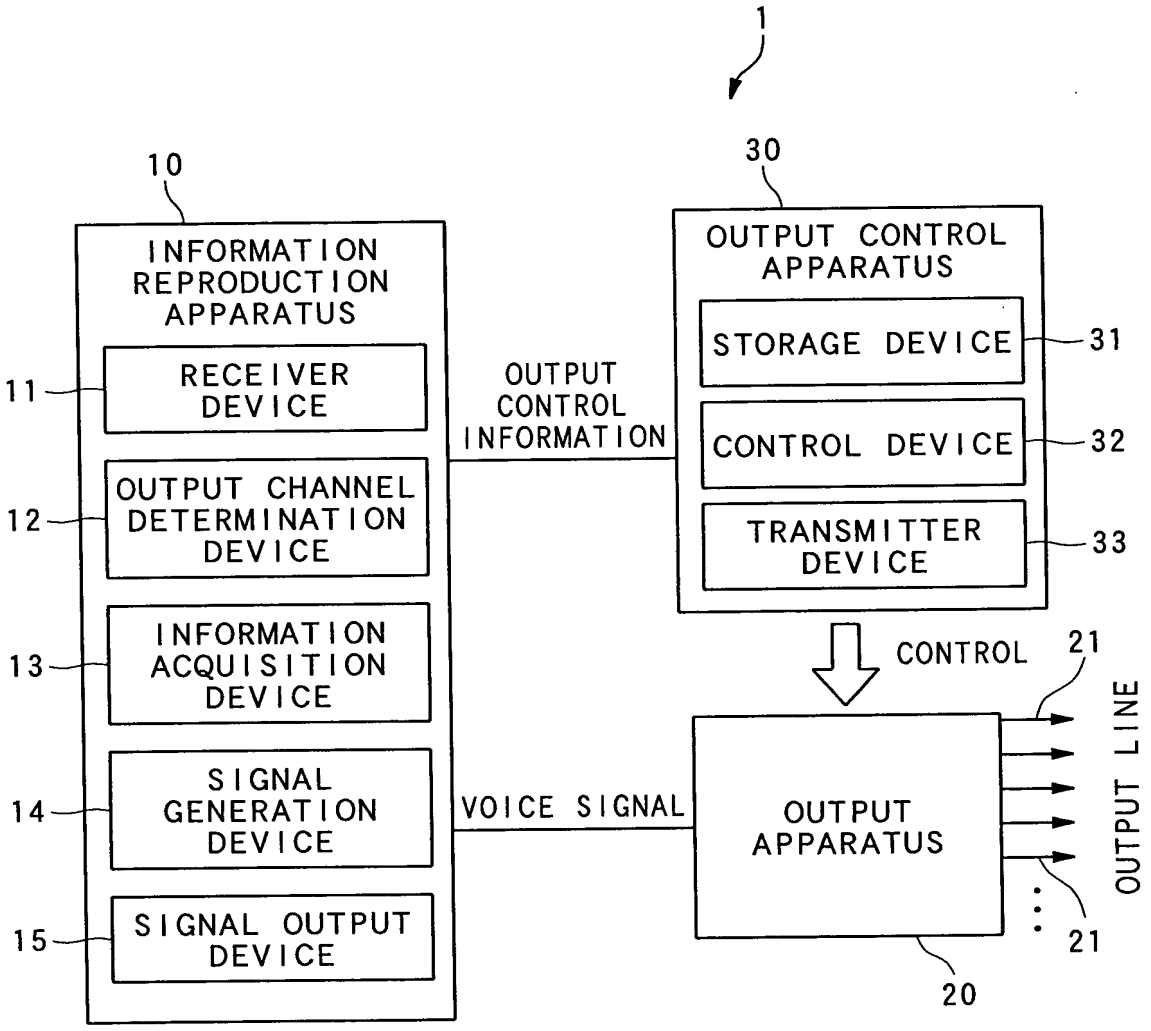

1
10
INFORMATION REPRODUCTION APPARATUS
11
RECEIVER DEVICE
12
OUTPUT CHANNEL DETERMINATION DEVICE
13
INFORMATION ACQUISITION DEVICE
14
SIGNAL GENERATION DEVICE
15
SIGNAL OUTPUT DEVICE
OUTPUT CONTROL INFORMATION
VOICE SIGNAL
30
OUTPUT CONTROL APPARATUS
STORAGE DEVICE
31
CONTROL DEVICE
32
TRANSMITTER DEVICE
33
CONTROL
21
OUTPUT APPARATUS
OUTPUT LINE
21
20

FIG. 2

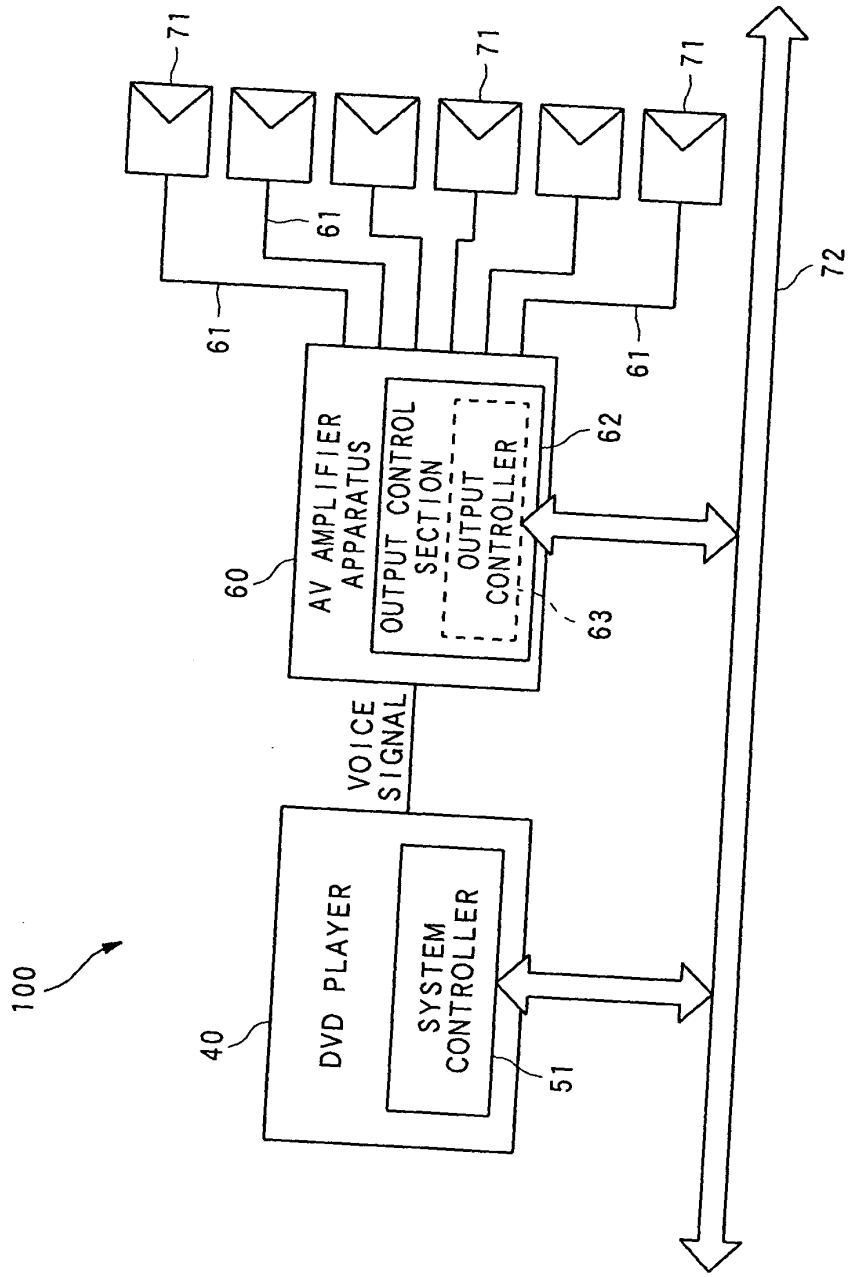

100
71
71
71
61
61
61
72
AV AMPLIFIER APPARATUS
60
OUTPUT CONTROL SECTION
OUTPUT CONTROLLER
62
63
VOICE SIGNAL
DVD PLAYER
40
SYSTEM CONTROLLER
51

FIG. 3

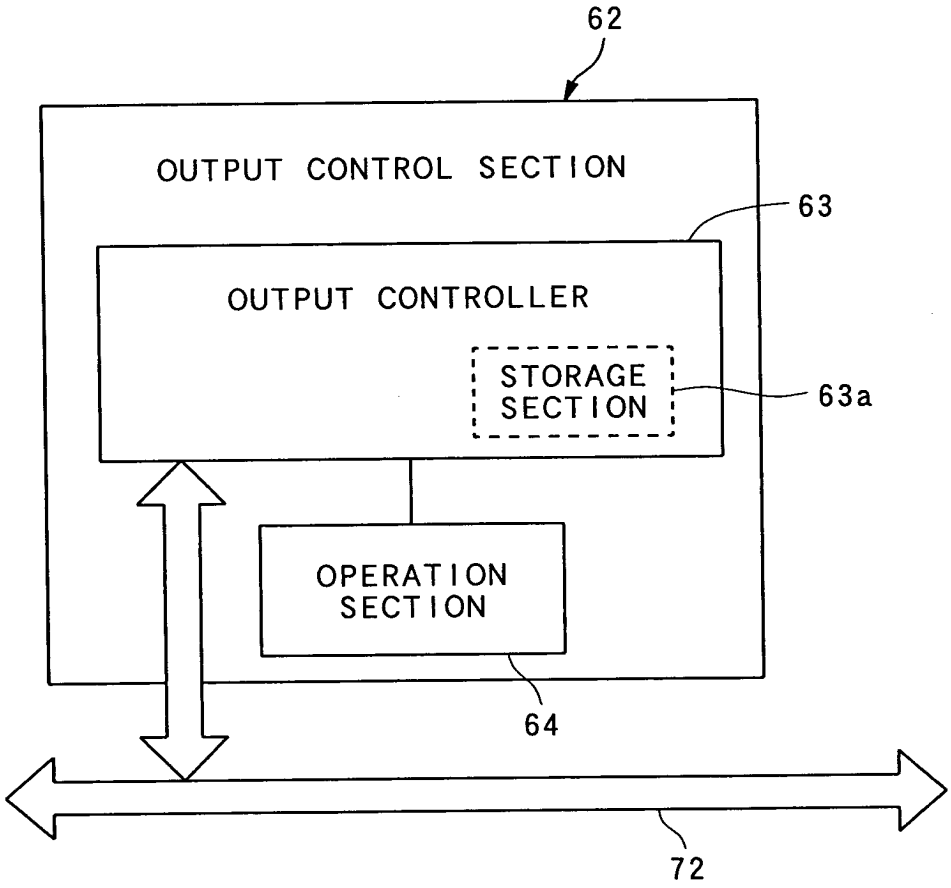

62
OUTPUT CONTROL SECTION
63
OUTPUT CONTROLLER
STORAGE SECTION
63a
OPERATION SECTION
64
72

FIG. 4

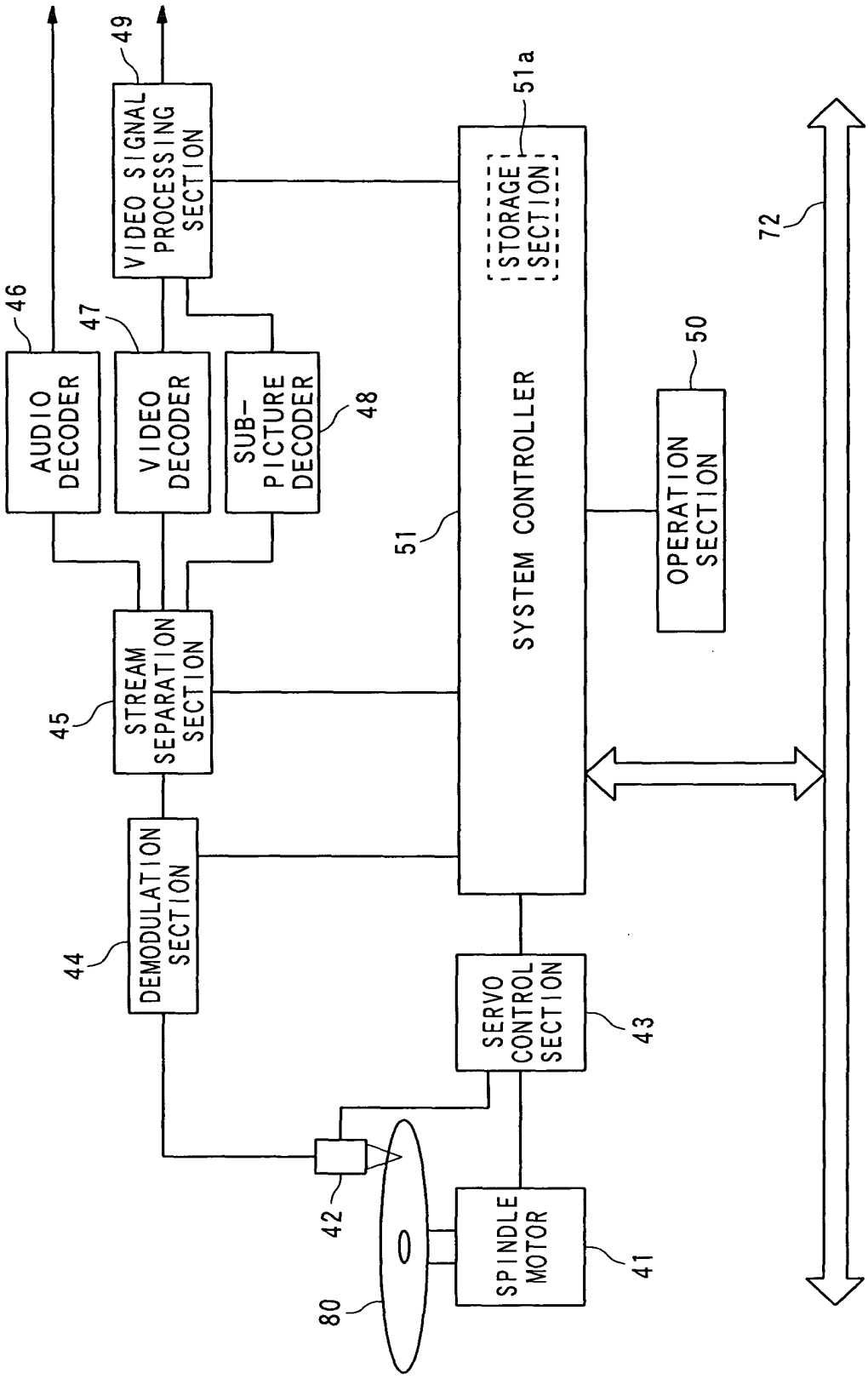

49
VIDEO SIGNAL PROCESSING SECTION
51a
STORAGE SECTION
72
46
AUDIO DECODER
47
VIDEO DECODER
SUB-PICTURE DECODER
48
50
OPERATION SECTION
51
SYSTEM CONTROLLER
45
STREAM SEPARATION SECTION
44
DEMODULATION SECTION
SERVO CONTROL SECTION
43
42
80
SPINDLE MOTOR
41

FIG. 5

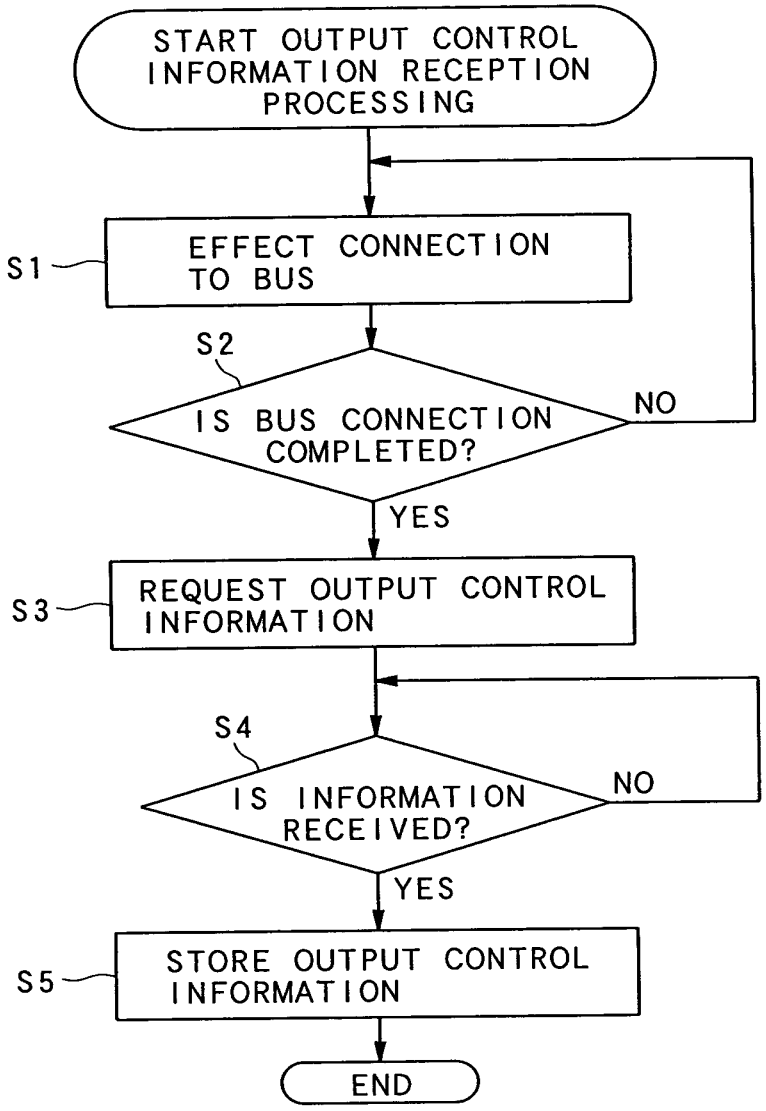

START OUTPUT CONTROL INFORMATION RECEPTION PROCESSING
S1
EFFECT CONNECTION TO BUS
S2
IS BUS CONNECTION COMPLETED?
NO
YES
S3
REQUEST OUTPUT CONTROL INFORMATION
S4
IS INFORMATION RECEIVED?
NO
YES
S5
STORE OUTPUT CONTROL INFORMATION
END

FIG. 6

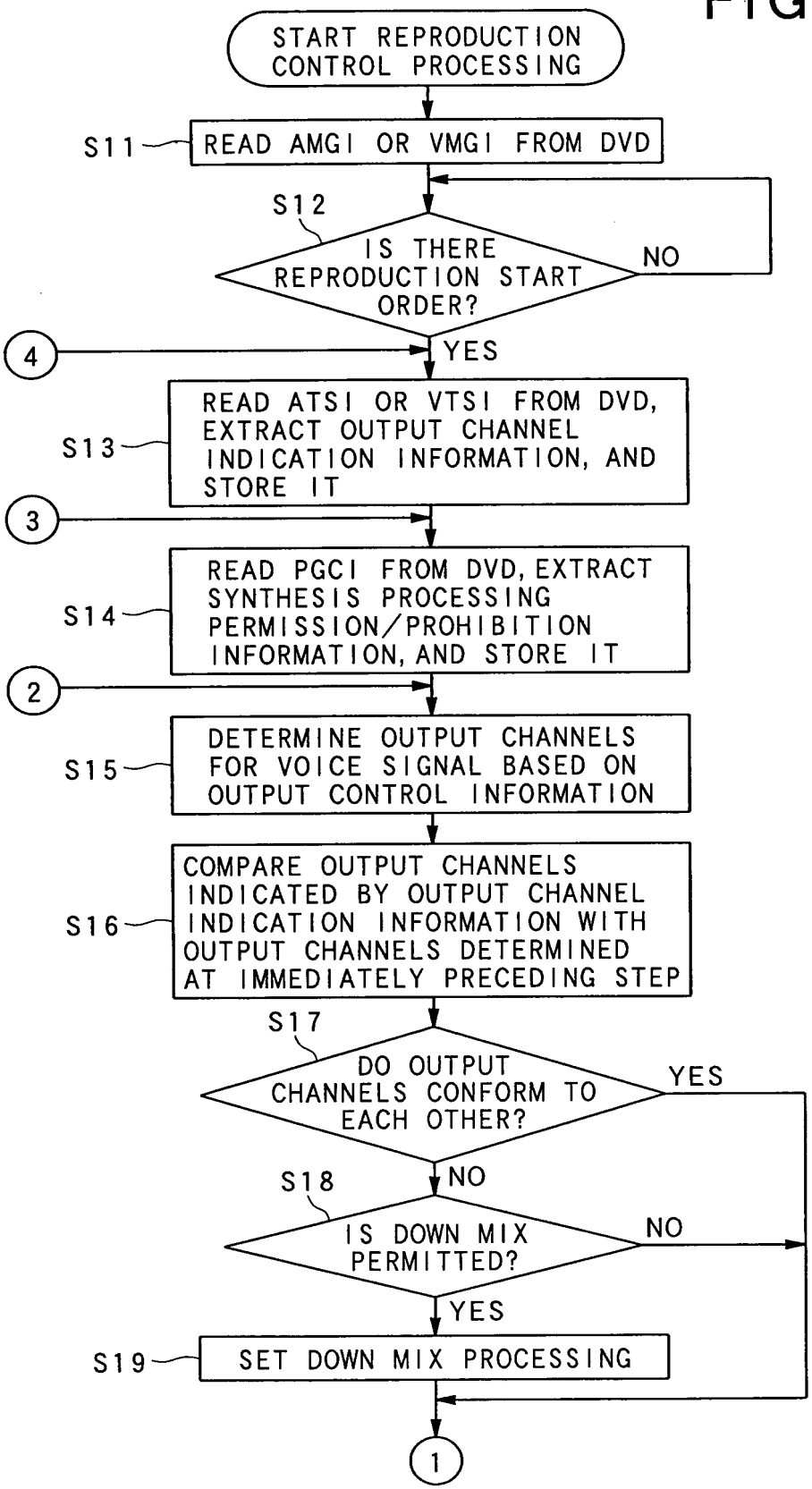
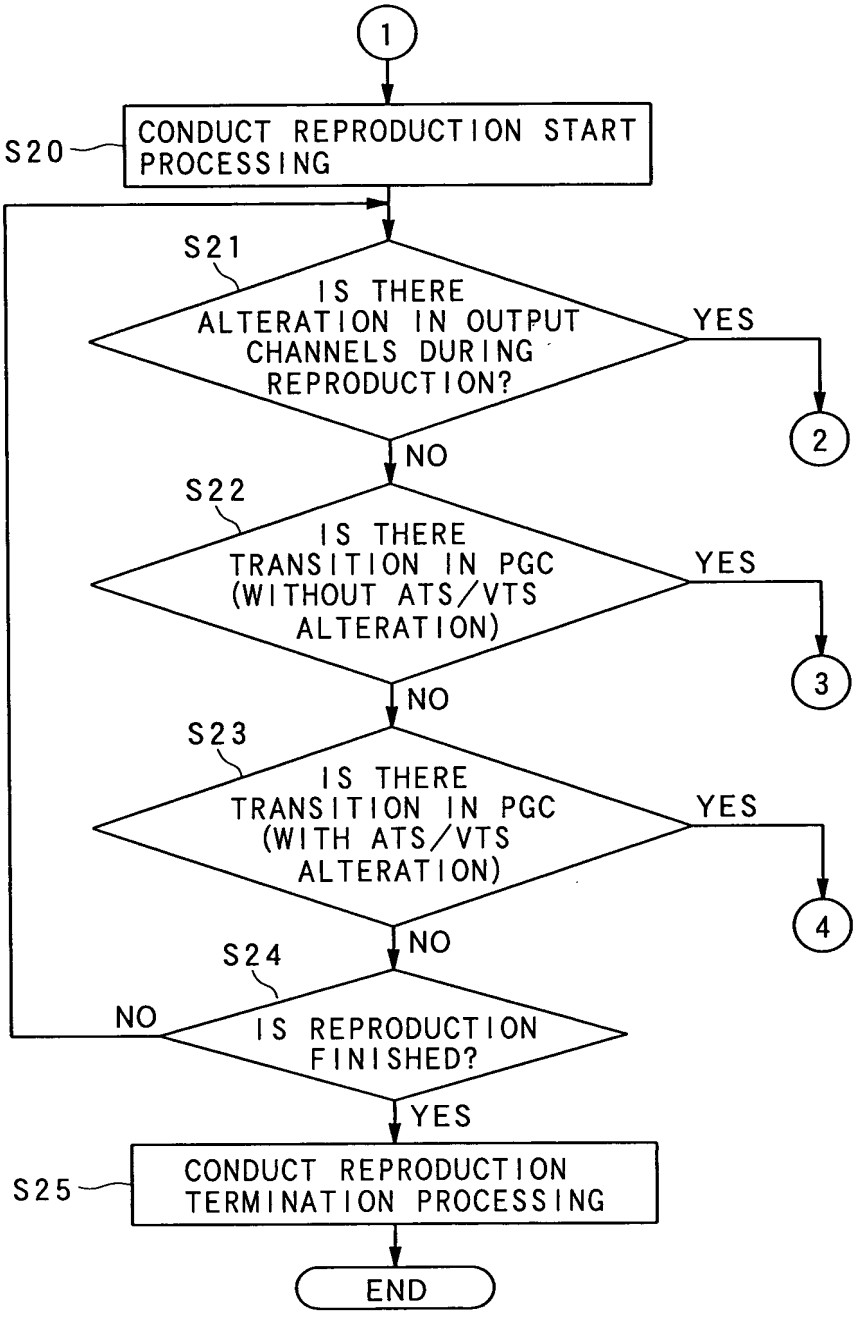

START REPRODUCTION CONTROL PROCESSING
S11
READ AMGI OR VMGI FROM DVD
S12
IS THERE REPRODUCTION START ORDER?
NO
YES
4
S13
READ ATSI OR VTSI FROM DVD, EXTRACT OUTPUT CHANNEL INDICATION INFORMATION, AND STORE IT
3
S14
READ PGCI FROM DVD, EXTRACT SYNTHESIS PROCESSING PERMISSION/PROHIBITION INFORMATION, AND STORE IT
2
S15
DETERMINE OUTPUT CHANNELS FOR VOICE SIGNAL BASED ON OUTPUT CONTROL INFORMATION
S16
COMPARE OUTPUT CHANNELS INDICATED BY OUTPUT CHANNEL INDICATION INFORMATION WITH OUTPUT CHANNELS DETERMINED AT IMMEDIATELY PRECEDING STEP
S17
DO OUTPUT CHANNELS CONFORM TO EACH OTHER?
YES
NO
S18
IS DOWN MIX PERMITTED?
NO
YES
S19
SET DOWN MIX PROCESSING
1

FIG. 7


1
S20
CONDUCT REPRODUCTION START PROCESSING
S21
IS THERE ALTERATION IN OUTPUT CHANNELS DURING REPRODUCTION?
YES
2
NO
S22
IS THERE TRANSITION IN PGC (WITHOUT ATS/VTS ALTERATION)
YES
3
NO
S23
IS THERE TRANSITION IN PGC (WITH ATS/VTS ALTERATION)
YES
4
NO
S24
IS REPRODUCTION FINISHED?
NO
YES
S25
CONDUCT REPRODUCTION TERMINATION PROCESSING
END